



**NASA Environmental Compatibility Research Workshop IV**  
**Colorado Springs, CO**  
**August 12 – 13**

Dear Colleague:

You are cordially invited to participate in the fourth in the series of Workshops on NASA's Environmental Compatibility Research, to be held August 12 –13 in Colorado Springs, Colorado.

This workshop will seek to:

1. Review the findings and recommendations of the Last Workshop;
2. Provide status of NASA programs and budget situation;
3. Exchange information on relevant issues, policies and regulatory changes, and
4. Develop methods to achieve mutual goals.

Participants will again be divided into two tracks, Noise or Emissions, for the continuing discussions. See the attached draft agenda for details.

If you did not have the opportunity to attend the first three workshops and would like additional information on the proceedings, please see the NASA Environmental Compatibility Workshop Website at:

<http://www.aero-space.nasa.gov/library/encompat/encompat.htm>

or contact:

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Workshop IV will be held at the Holiday Inn—Garden of the Gods in Colorado Springs, CO. For reservations, please contact the hotel directly at (719) 598-7656 as soon as possible in order to guarantee the conference rate of \$73.00/night. To obtain the preferred rate, please indicate to the reservation agent that you will be attending the NASA Environmental Compatibility Research Workshops.

In addition to contacting the hotel for room reservations, please reply to this email if you intend to attend this workshop. If you know of any colleagues who may be interested in attending this workshop, please have them contact Lisa Reuss via telephone or email as seen above.

## Workshop IV Agenda

### Day 1

- 8:00**                      **Welcome (Neal Nijhawan)**
- 8:15 - 8:30**            **Workshop Objectives (Michael Mann)**
- 8:30 - 9:00**            **Review Previous Workshops (Frank Murray)**
- 9:00 –9:30**            **NASA Overview (Robert Pearce)**
- 9:30 – 10:00**       **NASA Programs Overview (Richard Christiansen)**
- 10:00**                   **Break**
- 10:15 – 12:15**       **NASA Environmental Programs**
- a.                               **Noise**
    - 1)                               **Current (Andy Powell & Loretta Shaw)**
    - 2)                               **Planned (Bill Willshire)**
  - a.                               **Emissions**
    - 1)                               **Current (John Rohde & Richard Antcliff)**
    - 2)                               **Planned (John Rohde & James Pittman)**
- 12:15 – 1:15**       **Lunch**
- 1:15 – 2:00**       **Related Programs**
- a.                               **NASA Aviation Systems Capacity (Frank Aguilera)**
  - b.                               **Atmospheric Research (Donald Anderson)**
- 2:00-3:00**            **Other Agencies' Related Research Programs & Coordination w/NASA**
- a.                               **FAA (Howard Wesoky)**
  - b.                               **EPA (Lisa Chang)**
  - c.                               **DOE (James Ohi)**
- 3:00-3:15**            **Break**
- 3:15-4:45**            **Customer Perspective and Other Research**
- a.                               **Airframers (Boeing-Robert Cuthbertson)**
  - b.                               **Engine Manufacturers**
    - (1)                               **General Electric (David Fancher)**
    - (2)                               **AlliedSignal (John Meier)**
  - a.                               **Academia**
    - (1)                               **Emissions (Ian Waitz)**
    - (2)                               **Noise (Krish Ahuja)**

**4:45 – 5:15      Customer Perspectives**

- a.                      Airports
  - (1)                      Chicago O'Hare (Chris Arman)
  - (2)                      San Jose (Gary Stowell)

**Day 2**

**8:00-9:00      Customer Perspectives (Continued)**

- a.                      Airlines (American Airlines-Gerald Chambers-TBC)
- b.                      NGO
  - (1)                      Coalition for Clean Air Policy (Sue Gander)
  - (2) NOISE (Michael Banello-TBC)

**Breakout Session Guidance (Neal Nijhawan)**

**9:00              Break**

**9:15 – 12:30   Convene Breakout Groups (Noise Group & Emissions Group)  
Breakout to Clarify Information & Discuss the Following Questions**

**1. Considering your needs, the current NASA Programs and investment strategies, the international situation, and limited budgets, is a national policy/strategy necessary to direct NASA/FAA to have programs for noise, emissions, and atmospheric research to address environmental issues and if so,**

- What should be the critical elements of that policy?
  - What are the pros and cons to having such a policy?
  - How do we collectively achieve it?
- 2. From near and far-term perspectives, what are the appropriate roles in developing mitigating technologies for NASA, FAA, US Industry and other organizations,**
- Given the current budget situation,
  - In the event NASA loses more funding
- 2. Are current environmental programs of Industry and agencies (NASA, EPA, FAA, etc.) adequate and rightly paced to meet National and International environmental needs? If they are not,**
- What changes should be made?
  - If NASA is unable to pursue its proposed environmental programs, what are the impacts on your plans?
- 2. What is the right approach to achieve a win/win situation of operational benefit and environmental improvement?**

**12:30              Lunch**

**1:30-2:15      Reconvene Breakout Groups (Prepare Plenary Report)**

**2:15 – 3:00      Plenary: Report back from Breakout Groups and Discussion**

**3:00              Next Steps/Closing Remarks (Neal Nijhawan & Frank Murray)**